AVERAGE MEAN (MIXTURE) ANALYSIS L. VALLIAPPAN 39111054 1) Find the overage of first 40 natural numbers 195111355 19/20.5 b) 18 c) 19-5 Sum of first n natural numbers = (ncn+))/2 1=40 => 40(40+1)2 => 40×41/2 = 2000 820 AVERAGE = 30380 820 -20-5 2.) Find the average of all the numbers between 6 and 34 which are divisible by 5. a= 10 , n=5 , L= 30 Sn= n [a+L] sn = 5 [2(10) + (6500) 30] a) 18 V5 20 C-) 24 Sn = 100 2) 30 Average = $\frac{Sn}{n}$ = $\frac{100}{5}$ = $\frac{20}{5}$ 3) The Average of 2,7,6 and x is 5, and the average of 18, 1,6, x and y in to - what is value of y? a) 5 6)10 (2) 20 d.)30 1 to Find 18+1+6+5+7=10 2+7+6+x = 5 30+7 = 507=20 4) The average of 7 consecutive number is 20. The largest b) 22 (i) 23 d.) 24 of these number is 17 18 19 20 21 22 23 5.) Nine person went to a dotal for traking their meals. Eight of them spent RS.12 each on their meals and the ninth Spent Rs. 2 more than the average expenditure of all the nine. what was the total money spent by them? \$3 (17 b) 180 c) 150 d) 200 Aug = sum of Money => y = 96+ x oc=9+8 > from question No-of-person scz geh person 4 -> y= Average (-> TOTAL Money Spent -> 96+13+8=117 y= 96+448 99 = 96+8 +9 89 = 104

6) In Soven given numbers, the average of first four L'UALLIAPPAN number is 4 and that of the last 4 number is also 39111054 19541355 4. It the average of those 7 numbers is 3, the fourth number is St toug C) 7 MIN 67 4 4x4 => 16 => 1st four rumbers HXH => 16 => last four numbers whole Aug = 7x3=21 (16+16-21 => 32-21=11) 7) The naverage weight of 29 estudents is 28kg. By the admission of a new are student the average weight reduced to 27.8 kg. what is the weight of the new sturdent d.) 21 kg C) 22.4Kg b.1 21.6 kg 29x28 = 812 > Initial 30x 27.8 = 834 > After new one added 834-812 = 22 kg) -> new one's weight. 8) The Average age of a committee of 8 members is no years. A member aged 55 years retired and his place was taken by another member aged 37 years - Take average of prosent comitte as. c) 36 years 2.135 years. a) 39 years 18/ 38 years 8 x 40 = 320 > Initial Romove 55 320-55 = 26\$ Add 39 265+39 = 304 9) Eight persons participated in a shooting competition. The top score in the been competition is 85 points. Had the top score in the been Competition and 85 Points - Had the top some 92 points instead of 85 points, the surrage score could have been 84. Find the number of points actually secred in the competition 0)645 b)655 \$ 665 d)636. 92+7x = 84 92+72=672 7x=672-92-> 7x=580 580+85 = 665.

10) Find the average of all even numbers upto 75

a:) 35 bi) 36,
$$\sqrt{38}$$
 d·) 34

 $a=2$, $d=2$, $n=\frac{34}{3}=37$
 $5n=\frac{n}{3}[2a+(m-1)d]$
 $5n=\frac{37}{3}[2(2)+(37-1)2]$
 $5n=\frac{37}{3}[4+72]$
 $5n=\frac{37}{3}\times\frac{7638}{37}=1406$
 $409=\frac{5n}{n}=\frac{1406}{37}=38$

L-UALL IRPPAN